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NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3, AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

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FILE 'HOME' ENTERED AT 18:37:59 ON 30 JAN 2009

=> file aquire, biosis, caplus COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE TOTAL ENTRY SESSION 1.10 1.10

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FILE 'AOUIRE' ENTERED AT 18:40:57 ON 30 JAN 2009
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COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)
=> s astaxanthin
         5433 ASTAXANTHIN
=> s 11 (s) ester#
          581 L1 (S) ESTER#
=> s 12 (s) caprvlic
             1 L2 (S) CAPRYLIC
=> d 13 ibib abs
   ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1938:64637 CAPLUS
DOCUMENT NUMBER:
                        32:64637
ORIGINAL REFERENCE NO.: 32:9053f-i,9054a-h
TITLE:
                        Astaxanthin and ovoverdin
AUTHOR(S):
                        Kuhn, Richard; Sorensen, Nils A.
SOURCE:
                        Berichte der Deutschen Chemischen Gesellschaft
                        [Abteilung] B: Abhandlungen (1938), 71B, 1879-88
                        CODEN: BDCBAD; ISSN: 0365-9488
DOCUMENT TYPE:
                        Journal
LANGUAGE:
                        Unavailable
GI For diagram(s), see printed CA Issue.
AB
    The green chromoprotein (I) in the eggs of Astacus gammarus is easily
     decomposed by alc., acetone, dilute acids or heat into a red pigment (II)
     which with alc. KOH gives astacin (III) (C. A. 27, 3530; 28, 217.1; Karrer
     and Hubner, C. A. 30, 6387.5). An interesting question was how
     combination of a red carotenoid with a colorless protein component can
     give a deep blue-green cbromoprotein. II, originally designated ovo
     ester, is not an ester but a hydroxylated carotenoid C40H52O4, i. e., a
    xanthophyll, and it is accordingly called astaxanthin. It differs from
    III in containing 4 more H atoms. In alkaline solution it uses up exactly 2
     O, smoothly giving III: II + 20 = III + 2H2O2. If O is strictly excluded,
     no trace of III is formed. The process hitherto thought to be a
saponification is
     therefore really an autoxidation. On the basis of the
     triketo-β-carotene structure for III which the work of Karrer and his
     colleagues has made very probable, it may be concluded that II contains 2
     secondary alc. groups in the place of 2 of the ketone groups in III. The
```

HO groups can readily be detected by esterification. No tetraesters could be prepared; the keto groups in II do not enolize under the same conditions as those in III. With MeNgI II gives only 2 mols. CH4 and its diacetate shows no active H at 20°. The absence of CH2 groups next to the CO groups would explain why, unlike III, the distribution of II between

benzine and aqueous MeOH is not influenced by dilute NaOH. It is very probable that the 2 CO groups are in conjugation with the polyene chain. II would then be a 5,5'-dihydroxy-4,4'-diketo- β -carotene. Whereas III has only 1 homogeneous absorption band, II and its esters show 3 distinct maximum in the visible region. When O is strictly excluded, II gives deep blue alkali salts. If air is admitted the color immediately changes to red and III is formed. The phenomenon is similar to the formation of the orange K stilbenediolate (IV) from benzoin and K alcoholate. The blue salts are probably formed by double enclization and have the structure (R = polyene chain). They have not been isolated in analyzable form but on decomposition with dilute H2SO4 in a high vacuum they give II exclusively. Ovoverdin (I) is also assumed to be an analog of IV and is assigned a structure similar to that above, with basic groups of the protein component replacing the K atoms. This would explain its blue-green color. Unlike the blue salts, however, it is not autoxidizable; this is believed to be due to the fact that the protein is present not only in salt-like combination but that, as in the formation of flavoproteins and flavophosphoproteins, forces come into play which effect a sp., relatively firm "anchoring" of the pigment to the protein. From sedimentation studies of hardly purified solns. of I from the eggs. of Homarus americanus, Wyckoff (C. A. 31, 8568.6) obtained values corresponding to a mol. weight of about 300,000. The question was whether with increasing purification the ratio of II to protein in I would approach the value 1:500 corresponding to such a mol. weight With fresh eggs. of North Sea lobsters as starting material, the content of II, after cleavage of the protein fraction with pyridine, was determined calorimetrically in a step photometer. The protein content was determined by precipitation with tannin

(C. A. 32, 202.2) and Kjeldahl N detns. on the ppts. The I was purified by fractional adsorption on Al(OH)3 and fractional elution with NaZHPO4 or 40%-saturated (NH4)2504 under N in a refrigerator. There were thus obtained products with a constant ratio II: protein of 1:242. The absorption spectrum did not change during the course of the purification. The mol. weight determined in this way is therefore around 144,000. The epiphasic

piaments in the red epidermis of the lobster, hitherto considered to be esters of III, are really esters of II, for when the saponification is effected in the complete absence of air there are obtained the characteristic deeply colored salts of II which are instantly dehydrogenated to the tetraketone only when air is admitted. The chromoproteins also yield the double a-ketol with heat or dilute acids. The pigment of the boiled lobster is therefore II, not III. This is probably true of all Crustacea insofar as putrefaction or other factors have not set up an alkaline reaction which makes possible autoxidation to the tetraketone on boiling. II, m. 215-16° (decomposition), $\alpha672.5 \pm 0.03$ ° (7.22 mg. in 10 cc. pyridine, 1 2 dm.). Diacetate, deep blue-black, m. 203- 5° (evacuated tubes, Berl block), goes into the lower layer in distribution tests between 90% MeOH and benzine. Dicaprylate, dark red, m. 121-4° (in vacua, Berl block); only very little can be shaken out of benzine with 95% MeOH and less than half with 90% MeOH, but with 97% MeOH most of the pigment goes into the lower layer. Dipalmitate, violet-red, m. 71.5-2.5°.

=> d his

(FILE 'HOME' ENTERED AT 18:37:59 ON 30 JAN 2009)

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FILE 'AQUIRE, BIOSIS, CAPLUS' ENTERED AT 18:40:57 ON 30 JAN 2009
          5433 S ASTAXANTHIN
L2
           581 S L1 (S) ESTER#
L3
             1 S L2 (S) CAPRYLIC
=> s l1 (s) caprylic
            1 L1 (S) CAPRYLIC
=> s 14 not 13
            0 L4 NOT L3
=> s 11 (1) caprylic
            2 L1 (L) CAPRYLIC
=> s 16 not 15
            2 L6 NOT L5
L7
=> d 17 1-2 ibib abs
L7 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER:
                       1961:65684 CAPLUS
DOCUMENT NUMBER:
                        55:65684
ORIGINAL REFERENCE NO.: 55:12543b-d
TITLE:
                        Lipides of Ankistrodesmus braunii
AUTHOR(S):
                        Williams, Virginia R.; McMillan, Rosamond
CORPORATE SOURCE:
                        Louisiana State Univ., Baton Rouge
SOURCE:
                        Science (Washington, DC, United States) (1961), 133,
                        459-60
                        CODEN: SCIEAS: ISSN: 0036-8075
DOCUMENT TYPE:
                        Journal
LANGUAGE:
                        Unavailable
AB cf. CA 52, 5542h. The cellular lipides of A. braunii, grown to stationary
     phase on a chemical defined medium, were analyzed. The lipide content varied
     from 18 to 73% (dry weight), depending on age and methods of analysis. The
     pigments of the nonsaponifiable fraction were separated by adsorption
     chromatography and counter current extraction and tentatively identified as
     β-carotene, astaxanthin, lutein, and possibly a derivative of
     neoxanthin. The correct spectra and solubility were obtained for the 1st 3.
     The fatty acid fraction was converted to the corresponding Me esters and
     analyzed by gas chromatography. The principal fatty acids present were:
    palmitic, oleic, and linolenic acids. Traces were detected of
    caprylic, capric, lauric, and palmitoleic acids.
L7 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER:
                        1938:64637 CAPLUS
DOCUMENT NUMBER:
                        32:64637
ORIGINAL REFERENCE NO.: 32:9053f-i,9054a-h
TITLE:
                        Astaxanthin and ovoverdin
AUTHOR(S):
                        Kuhn, Richard; Sorensen, Nils A.
SOURCE:
                        Berichte der Deutschen Chemischen Gesellschaft
                        [Abteilung] B: Abhandlungen (1938), 71B, 1879-88
                        CODEN: BDCBAD: ISSN: 0365-9488
DOCUMENT TYPE:
                        Journal
LANGUAGE:
                        Unavailable
    For diagram(s), see printed CA Issue.
     The green chromoprotein (I) in the eggs of Astacus gammarus is easily
     decomposed by alc., acetone, dilute acids or heat into a red pigment (II)
```

which with alc. KOH gives astacin (III) (C. A. 27, 3530; 28, 217.1; Karrer and Hubner, C. A. 30, 6387.5). An interesting question was how combination of a red carotenoid with a colorless protein component can give a deep blue-green chromoprotein. II, originally designated ovo ester, is not an ester but a hydroxylated carotenoid C40H5204, i. e., a xanthophyll, and it is accordingly called astaxanthin. It differs from III in containine 4 more H atoms. In alkaline solution it uses up exactly 2

mols.

O, smoothly giving III: II + 20 = III + 2H2O2. If O is strictly excluded, no trace of III is formed. The process hitherto thought to be a saponification is

therefore really an autoxidation. On the basis of the triketo-β-carotene structure for III which the work of Karrer and his colleagues has made very probable, it may be concluded that II contains 2 secondary alc. groups in the place of 2 of the ketone groups in III. The HO groups can readily be detected by esterification. No tetraesters could be prepared; the keto groups in II do not enolize under the same conditions as those in III. With MeMgI II gives only 2 mols. CH4 and its diacetate shows no active H at 20°. The absence of CH2 groups next to the CO groups would explain why, unlike III, the distribution of II between benzine and aqueous MeOH is not influenced by dilute NaOH. It is very probable that the 2 CO groups are in conjugation with the polyene chain. II would then be a 5,5'-dihydroxy-4,4'-diketo-β-carotene. Whereas III has only 1 homogeneous absorption band, II and its esters show 3 distinct maximum in the visible region. When O is strictly excluded, II gives deep blue alkali salts. If air is admitted the color immediately changes to red and III is formed. The phenomenon is similar to the formation of the orange K stilbenediolate (IV) from benzoin and K alcoholate. The blue salts are probably formed by double enolization and have the structure (R = polyene chain). They have not been isolated in analyzable form but on decomposition with dilute H2SO4 in a high vacuum they give II exclusively. Ovoverdin (I) is also assumed to be an analog of IV and is assigned a structure similar to that above, with basic groups of the protein component replacing the K atoms. This would explain its blue-green color. Unlike the blue salts, however, it is not autoxidizable; this is believed to be due to the fact that the protein is present not only in salt-like combination but that, as in the formation of flavoproteins and flavophosphoproteins, forces come into play which effect a sp., relatively firm "anchoring" of the pigment to the protein. From sedimentation studies of hardly purified solns, of I from the eggs. of Homarus americanus, Wyckoff (C. A. 31, 8568.6) obtained values corresponding to a mol. weight of about 300,000. The question was whether with increasing purification the ratio of II to protein in I would approach the value 1:500 corresponding to such a mol. weight With fresh eggs. of North Sea lobsters as starting material, the content of II, after cleavage of the protein fraction with pyridine, was determined calorimetrically in a step photometer. The protein content was determined by precipitation

with tannin

(C. A. 32, 202.2) and Kjeldahl N detns. on the ppts. The I was purified by fractional adsorption on Al(OH)3 and fractional elution with NaZHFO4 or 40%-saturated (NH4)2504 under N in a refrigerator. There were thus obtained products with a constant ratio II: protein of 1:242. The absorption spectrum did not change during the course of the purification. The mol. weight determined in this way is therefore around 144,000. The epiphasic

pigments

in the red epidermis of the lobster, hitherto considered to be esters of III, are really esters of II, for when the saponification is effected in the complete absence of air there are obtained the characteristic deeply

colored salts of II which are instantly dehydrogenated to the tetraketone only when air is admitted. The chromoproteins also yield the double a-ketol with heat or dilute acids. The pigment of the boiled lobster is therefore II, not III. This is probably true of all Crustacea insofar as putrefaction or other factors have not set up an alkaline reaction which makes possible autoxidation to the tetraketone on boiling. II, m. 215-16° (decomposition), $66^{72.5} \pm 0.03^{9}$ (7.22 mg, in 10 cc. pyridine, 1 2 dm.). Diacetate, deep blue-black, m. 203-5° (evacuated tubes, Berl block), goes into the lower layer in distribution tests between 90% MeOH and benzine. Dicaprylate, dark red, m. 121-4° (in vacua, Berl block); only very little can be shaken out of benzine with 95% MeOH and less than half with 90% MeOH, but with 97% MeOH most of the pigment goes into the lower layer. Dipalmitate, violet-red, m. 71,5-2.5°.

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FILE CONTAINS CURRENT INFORMATION.
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FILE 'AQUIRE, BIOSIS, CAPLUS' ENTERED AT 18:40:57 ON 30 JAN 2009
L1 5433 S ASTAXANTHIN
L2 581 S L1 (5) ESTER#
L3 1 S L2 (5) CAPRILIC

1 5 L2 (5) CAPRILIC L4 1 5 L1 (5) CAPRYLIC L5 0 5 L4 NOT L3 L6 2 5 L1 (L) CAPRYLIC L7 2 5 L6 NOT L5

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=> file aquire, biosis, caplus COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 0.14 25.66 DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL ENTRY SESSION CA SUBSCRIBER PRICE 0.00 -2.46

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=> s l1 and caprylic 7 L1 AND CAPRYLIC

=> s 18 not 17 T. 9 5 L8 NOT L7

=> d 19 1-5 ibib abs

L9 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:1155669 CAPLUS

DOCUMENT NUMBER: 149:408949

TITLE: Cationic latex as a carrier for active ingredients and

methods for making and using the same INVENTOR(S): Krishnan, Venkataram

USA

PATENT ASSIGNEE(S):

SOURCE: U.S. Pat. Appl. Publ., 36pp., Cont.-in-part of U.S. Ser. No. 895541.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
US 20080233062	A1	20080925	US 2008-116006	20080506		
US 20080057049	A1	20080306	US 2007-895541	20070824		
PRIORITY APPLN. INFO.:			US 2006-839973P P	20060824		
			US 2007-895541 A2	20070824		

This invention relates to the field of polymeric materials that can be used in combination with a wide variety of substrates, such as textiles, metal, cellulosic materials, plastics, and the like, and to the field of active agents including, for example, antimicrobial, antibacterial, and antifungal materials. This invention further relates to latex polymer coatings that comprise at least one active component as well as methods for making and using such latex compns. Thus, deodorant composition was prepared

comprising DC245 fluid 49.30%, Bentone gel VS-5/PC 13.50%, Puresyn 4 10.0%, Asensa CL 110 1.0%, Cabosil M5 0.2%, Reach AZP 908 SUF 24.0%, and dipropylene glycol 2.0%.

L9 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:770132 CAPLUS

DOCUMENT NUMBER: 149:106640

TITLE: Polyglycerin fatty ester-containing screen inks and pressure-sensitive transfer sheets printed therewith INVENTOR(S): Iida, Yasuharu; Higo, Sachiko; Furukawa, Kunihiro

PATENT ASSIGNEE(S): Toyo Ink Mfg. Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 9pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 2008143992 A 20080626 JP 2006-331364 20061208
PRIORITY APPLN. INFO.: JP 2006-331364 20061208

AB Title screen inks, capable of printing on food, are prepared by mixing 60-90 parts dispersions of colored edible dyes and white edible dyes in heat-meltable compns. comprising polyglycerin fatty esters, hydrogenated vegetable oils, and edible waxes with 10-40 parts H2O at 50-70°, and emulsifying. Title pressure-sensitive transfer sheets are prepared by printing 50-90 µm-thick substrates with the screen inks at thickness 5-20 µm (as dried coating). Thus, bleached paper for food was screen-printed with an ink containing caprylic capric triglycerides, hexaglycerin ricinoleate, hydrogenated soybean oil, beeswax, Japan Red 40 Al lake, and CaCO3 to dive a pressure-sensitive transfer sheet showing

L9 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:1207105 CAPLUS

DOCUMENT NUMBER: 147:454810

TITLE: External compositions containing redox catalysts,

oxidoreductase, and/or reducing agents

good blocking resistance and no curling nor delamination.

INVENTOR(S): Yanagi, Kotaro

PATENT ASSIGNEE(S): Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 19pp.

CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 2007277212 A 20071025 JP 2006-127932 20060404 FRIORITY APPLN. INFO.: JP 2006-127932 20060404 AB The invention relates to an external composition, especially an anti-wrinkle,

skin-whitening, anti-acne, anti-aging, and skin barrier function-improving cosmetic composition, wherein the composition is characterized by containing at least

two components selected from a metal redox catalyst, an oxidoreductase, and a reducing agent. The components activates biol. tissue or bioactive agent through the reducing effect. The components may be immobilized on the surface of carrier particles. For example, crystallized subtilisin was crosslinked with protein through glutaraldehyde to stabilize. The crystal was mixed with platinum colloid in 0.5 % xanthan gel at 10 and 0.1 %, resp., and further mixed with L-ascorbic acid-2-phosphate

ester-6-palmitate (3 %), fullerene C60 (1 %), and preservative (2 %). The gel composition showed higher keratolytic effect as compared with glycolic acid cream on human skin. Also, an emulsion composition containing the gel

composition

0.0001-10 % with other ingredients was formulated.

L9 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:404819 CAPLUS

DOCUMENT NUMBER: 141:189706

TITLE: Sugar ester synthesis by a mycelium-bound Mucor

circinelloides lipase in a micro-reactor equipped with

water activity sensor

AUTHOR(S): Antozak, Tadeusz; Patura, Justvna; Szczesna-Antozak, Miroslawa; Hiler, Dariusz; Bielecki, Stanislaw

CORPORATE SOURCE: Institute of Technical Biochemistry, Technical

University of Lodz, Lodz, 90-924, Pol. SOURCE: Journal of Molecular Catalysis B: Enzymatic (2004),

29(1-6), 155-161

CODEN: JMCEF8: ISSN: 1381-1177 PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 141:189706

The mycelium-bound Mucor circinelloides lipase was used for the synthesis of esters of saccharides and fatty acids in 37 mL reactor equipped with magnetic stirrer and water activity sensor. Either di-n-pentyl ether or the mixture of di-n-pentyl and petroleum ethers were applied as reaction media. Water activity sensor provided online monitoring of this parameter and control of continuous processes of ester synthesis. It was found that

two natural antioxidants, i.e. carotene and astaxanthin

activated this lipase in organic solvents that could be beneficial for the synthesis of esters of compds. sensitive to oxidation, e.g. polyunsatd. fatty acids.

REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2000:821281 CAPLUS

DOCUMENT NUMBER: 134:146440

TITLE: Activity of immobilised in situ intracellular lipases from Mucor circinelloides and Mucor racemosus in the

synthesis of sucrose esters

AUTHOR(S): Antczak, T.; Hiler, D.; Krystynowicz, A.; Szczesna,

M.; Bielecki, S.; Galas, E.

CORPORATE SOURCE: Institute of Technical Biochemistry, Technical

University of Lodz, Lodz, 90-924, Pol.

Progress in Biotechnology (2000), 17(Food

Biotechnology), 221-227 CODEN: PBITE3; ISSN: 0921-0423

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

CASREACT 134:146440 OTHER SOURCE(S):

The activity of intracellular, immobilized in situ lipases from Mucor circinelloides and Mucor racemosus can be changed by means of chemical

modifications of the reaction milieu, using some substances isolated from Mucor cells. The substances act ambivalently (as activators or

inhibitors) on the lipases. The yield of sucrose monocaprylate synthesis and the time to reach the reaction equilibrium state were determined in mono-

and

SOURCE:

biphasic systems. The investigations proved that in a milieu of

di-n-pentyl ether saturated with water, 92% of sucrose was esterified, and the location of the lipase on the interface between the phases, markedly

diminished the time equilibrium to reach.

REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 18:37:59 ON 30 JAN 2009)

FILE 'AQUIRE, BIOSIS, CAPLUS' ENTERED AT 18:40:57 ON 30 JAN 2009 L1 5433 S ASTAXANTHIN 12 501 c 11 (2) ESTEP#

11 9433 S ASIAMARIHIN
12 581 S L1 (S) ESTER#
13 1 S L2 (S) CAPRYLIC
14 1 S L1 (S) CAPRYLIC
15 0 S L4 NOT L3
16 2 S L1 (L) CAPRYLIC
17 2 S L6 NOT L5

FILE 'STNGUIDE' ENTERED AT 18:45:05 ON 30 JAN 2009

FILE 'AQUIRE, BIOSIS, CAPLUS' ENTERED AT 18:46:34 ON 30 JAN 2009
L8 7 S L1 AND CAPRYLIC

L9 5 S L8 NOT L7

=> s 11 and capric

L10 7 L1 AND CAPRIC

=> d 110 1-7 ibib abs

L10 ANSWER 1 OF 7 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on STN ACCESSION NUMBER: 1967:87749 BIOSIS

DOCUMENT NUMBER: PREV19674800087751; BA48:87751

TITLE: The ketocarotenoids in Adonis annua L.-II, On the structure

of esters [Engl. summ.].

Original Title: Die Ketocarotinoide in Adonis annua L: II.

Zur Struktur der Ester [Engl. summ.].

AUTHOR(S): EGGER, KURT; KLEINIG, HANS

CORPORATE SOURCE: Bot. Inst. Univ. Heidelberg, Heidelberg, West Ger. SOURCE: PHYTOCHEMISTRY, (1967) Vol. 6, No. 3, pp. 437-410.

DOCUMENT TYPE: Article
FILE SEGMENT: BA
LANGUAGE: Unavailab

LANGUAGE: Unavailable
ENTRY DATE: Entered STN: May 2007

Last Updated on STN: May 2007

AB The fatty acid compounds of the ketocaroten-oid esters of Adonis annua L. (esters from astaxanthin, 3-hydraxyechinen-one, 3,3[image] -dihydroxyechinenone and 3-hydroxyechinathaxanthin) have been investigated.

Myristic acid is the main compound, but the esters contain also palmitic, lauric, capric acid and an unsaturated fatty acid in minor

concentration. ABSTRACT AUTHORS: Authors

L10 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 2008:1155669 CAPLUS

DOCUMENT NUMBER: 149:408949

TITLE: Cationic latex as a carrier for active ingredients and

methods for making and using the same

INVENTOR(S): Krishnan, Venkataram

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 36pp., Cont.-in-part of U.S.

Ser. No. 895541. CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
US 20080233062	A1	20080925	US 2008-116006	20080506		
US 20080057049	A1	20080306	US 2007-895541	20070824		
PRIORITY APPLN. INFO.:			US 2006-839973P P	20060824		
			US 2007-895541 A:	2 20070824		

AB This invention relates to the field of polymeric materials that can be used in combination with a wide variety of substrates, such as textiles, metal, cellulosic materials, plastics, and the like, and to the field of active agents including, for example, antimicrobial, antibacterial, and antifungal materials. This invention further relates to latex polymer coatings that comprise at least one active component as well as methods for making and using such latex compns. Thus, deodorant composition was prepared

Comprising DC245 fluid 49.30%, Bentone gel VS-5/PC 13.50%, Puresyn 4 10.0%, Asensa CL 110 1.0%, Cabosil M5 0.2%, Reach AZP 908 SUF 24.0%, and dipropylene qlycol 2.0%.

L10 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:770132 CAPLUS

DOCUMENT NUMBER: 149:106640

TITLE: Polyglycerin fatty ester-containing screen inks and pressure-sensitive transfer sheets printed therewith INVENTOR(S): Iida, Yasuharu, Higo, Sachiko; Furukawa, Kunhiro

PATENT ASSIGNEE(S): Toyo Ink Mfg. Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 9pp.

CODEN: JKXXAF Patent

DOCUMENT TYPE: Patent
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2008143992 PRIORITY APPLN. INFO.:	A	20080626	JP 2006-331364 JP 2006-331364	20061208 20061208

AB Title screen inks, capable of printing on food, are prepared by mixing 60-90 parts dispersions of colored edible dyes and white edible dyes in heat-meltable compns. comprising polyglycerin fatty esters, hydrogenated vegetable oils, and edible waxes with 10-40 parts H2O at 50-70°, and emulsifying. Title pressure-sensitive transfer sheets are prepared by printing 50-90 µm-thick substrates with the screen inks at thickness 5-20 µm (as dried coating). Thus, bleached paper for food was screen-printed with an ink containing caprylic capric triglycerides, hexaglycerin ricinoleate, hydrogenated soybean oil, beswax, Japan Red 40 Al lake, and CaCO3 to give a pressure-sensitive transfer sheet showing

good blocking resistance and no curling nor delamination.

L10 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:1207105 CAPLUS

DOCUMENT NUMBER: 147:454810

TITLE: External compositions containing redox catalysts,

oxidoreductase, and/or reducing agents Yanagi, Kotaro

INVENTOR(S):

PATENT ASSIGNEE(S): Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 19pp.

CODEN: JKXXAF DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007277212	A	20071025	JP 2006-127932	20060404
PRIORITY APPLN. INFO.:			JP 2006-127932	20060404
AB The invention relat	es to	an external	composition, especially	an anti-wr

rinkle. skin-whitening, anti-acne, anti-aging, and skin barrier function-improving cosmetic composition, wherein the composition is characterized by containing at least

two components selected from a metal redox catalyst, an oxidoreductase, and a reducing agent. The components activates biol. tissue or bioactive agent through the reducing effect. The components may be immobilized on the surface of carrier particles. For example, crystallized subtilisin was crosslinked with protein through glutaraldehyde to stabilize. The crystal was mixed with platinum colloid in 0.5 % xanthan gel at 10 and 0.1 %, resp., and further mixed with L-ascorbic acid-2-phosphate ester-6-palmitate (3 %), fullerene C60 (1 %), and preservative (2 %). The

gel composition showed higher keratolytic effect as compared with glycolic acid cream on human skin. Also, an emulsion composition containing the gel

0.0001-10 % with other ingredients was formulated.

L10 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1968:19920 CAPLUS

DOCUMENT NUMBER: 68:19920 ORIGINAL REFERENCE NO.: 68:3795a,3798a

TITLE:

Secondary carotenoids of the green alga, Sphaeroplea AUTHOR(S): Kleinig, Hans

CORPORATE SOURCE: Univ. Heidelberg, Heidelberg, Fed. Rep. Ger.

SOURCE:

Zeitschrift fuer Naturforschung, Teil B: Anorganische Chemie, Organische Chemie, Biochemie, Biophysik,

Biologie (1967), 22(9), 977-9

CODEN: ZENBAX; ISSN: 0044-3174

DOCUMENT TYPE: Journal

LANGUAGE: German

The carotenoids of the zygospores of S. cambrica were extracted and separated AB bv

column chromatog. on kieselguhr. The carotenoids in the fractions obtained from the column were characterized by thin-layer chromatog., chemical tests, and spectroscopy. The carotenoids and the percent of each in the total were hydroxyechinenone (3-hydroxy-4-oxo-β-carotene) 2%, adonixanthin (3,3'-dihydroxy-4-oxo-β-carotene) 21%, adonirubin

 $(3-hydroxy-4,4'-dioxo-\beta-carotene)$ 4%, and astaxanthin $(3,3'-dihydroxy-4,4'-dioxo-\beta-carotene)$ 68%, which were esterified with myristic, lauric, and capric acids through the hydroxyl

groups, echinenon (4-oxo-β-carotene) 2%, and canthaxanthin

 $(4,4'-dioxo-\beta-carotene)$ 3%. Chlorophyll and primary carotenoids such as $\alpha-carotene$ and $\beta-carotene$ were not detected.

L10 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1967:112942 CAPLUS DOCUMENT NUMBER: 66:112942

ORIGINAL REFERENCE NO.: 66:20971a,20974a

TITLE: Ketocarotenoids from Adonis annua. II. Ester

structures

AUTHOR(S): Egger, Kurt; Kleinig, Hans

CORPORATE SOURCE: Univ. Heidelberg, Heidelberg, Fed. Rep. Ger. SOURCE: Phytochemistry (Elsevier) (1967), 6(3), 437-40

CODEN: PYTCAS; ISSN: 0031-9422

DOCUMENT TYPE: Journal LANGUAGE: German

AB cf. CA 63, 15223g. The fatty acid compds. of the ketocarotenoid esters in the petals of A. annua (esters of astaxanthin,

3-hydroxyechinenone, 3,3'-dihydroxyechinenone, and 3-hydroxycanthaxanthin) were identified as myristic (main compound), palmitic, lauric, and capric acids. An unsatd. fatty acid is present in a minor concentration 12 references.

L10 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1961:65684 CAPLUS

DOCUMENT NUMBER: 55:65684
ORIGINAL REFERENCE NO.: 55:12543b-d

TITLE: Lipides of Ankistrodesmus braunii

AUTHOR(S): Williams, Virginia R.; McMillan, Rosamond

CORPORATE SOURCE: Louisiana State Univ., Baton Rouge

SOURCE: Science (Washington, DC, United States) (1961), 133,

459-60

CODEN: SCIEAS; ISSN: 0036-8075

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

AB cf. CA 52, 5542h. The cellular lipides of A. braunii, grown to stationary phase on a chemical defined medium, were analyzed. The lipide content varied from 18 to 73% (dry weight), depending on age and methods of analysis. The pigments of the nonsaponifiable fraction were separated by adsorption chromatography and counter current extraction and tentatively identified as β -carotene, astaxanthin, lutein, and possibly a derivative of neoxanthin. The correct spectra and solubility were obtained for the 1st 3. The fatty acid fraction was converted to the corresponding Me esters and

analyzed by gas chromatography. The principal fatty acids present were: palmitic, oleic, and linolenic acids. Traces were detected of caprylic, capric, lauric, and palmitoleic acids.

capile, laurie, and parmittate deras.

=> FIL STNGUIDE

 COST IN U.S. DOLLARS
 SINCE FILE
 TOTAL

 FULL ESTIMATED COST
 ENTRY
 SESSION

 42.34
 68.00

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL

ENTRY SESSION

-9.02

-11.48

CA SUBSCRIBER PRICE

FILE 'SINGUIDE' ENTERED AT 18:48:49 ON 30 JAN 2009 USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Jan 23, 2009 (20090123/UP).

=> d his

(FILE 'HOME' ENTERED AT 18:37:59 ON 30 JAN 2009)

FILE 'AQUIRE, BIOSIS, CAPLUS' ENTERED AT 18:40:57 ON 30 JAN 2009
L1 5433 S ASTAXANTHIN
L2 581 S L1 (S) ESTER#
L3 1 S L2 (S) CAPRYLIC

L4 1 S L1 (S) CAPRYLIC L5 0 S L4 NOT L3 L6 2 S L1 (L) CAPRYLIC L7 2 S L6 NOT L5

FILE 'STNGUIDE' ENTERED AT 18:45:05 ON 30 JAN 2009

FILE 'AQUIRE, BIOSIS, CAPLUS' ENTERED AT 18:46:34 ON 30 JAN 2009
L8 7 S L1 AND CAPRYLIC

L9 5 S L8 NOT L7
L10 7 S L1 AND CAPRIC

FILE 'STNGUIDE' ENTERED AT 18:48:49 ON 30 JAN 2009

=> s l1 and (octanoic or decanoic) L11 0 L1 AND (OCTANOIC OR DECANOIC)

=> s 11 and nananoic L12 0 L1 AND NANANOIC

=> file aquire, biosis, caplus

COST IN U.S. DOLLARS SINCE FILE TOTAL
FULL ESTIMATED COST 0.84 SESSION
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL

ENTRY SESSION
CA SUBSCRIBER PRICE 0.00 -11.48

FILE 'AQUIRE' ENTERED AT 18:55:51 ON 30 JAN 2009 COPYRIGHT (C) 2009 US Environmental Protection Agency (EPA)

FILE 'BIOSIS' ENTERED AT 18:55:51 ON 30 JAN 2009 Copyright (c) 2009 The Thomson Corporation

FILE 'CAPLUS' ENTERED AT 18:55:51 ON 30 JAN 2009
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=> s 11 and (octanoic or nonanoic or decanoic)

L13 10 L1 AND (OCTANOIC OR NONANOIC OR DECANOIC)

=> d 113 1-10 ibib abs

L13 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:803607 CAPLUS

DOCUMENT NUMBER: 149:330479

TITLE: Enzymatic synthesis of astaxanthin n-

octanoic acid esters

AUTHOR(S): Nakao, Masahiro; Sumida, Motoo; Katano, Kenji; Fukami,

Harukazu

CORPORATE SOURCE: Institute for Advanced Technology, Technological

Development Center, Suntory Ltd., 5-2-5, Yamazaki, Shimamoto-cho, Mishima-gun, Osaka, 618-0001, Japan

SOURCE: Journal of Oleo Science (2008), 57(7), 371-374

CODEN: JOSOAP; ISSN: 1345-8957

PUBLISHER: Japan Oil Chemists' Society
DOCUMENT TYPE: Journal

DOCUMENT TYPE: Journal LANGUAGE: English

AB The enzymic synthesis of astaxanthin n-octanoic acid

esters was examined Carriers for the immobilized enzyme and reaction

conditions such as water content, reaction temperature, and time were examined using Candida cylindracea lipase (Lipase OF). Lipase OF immobilized by a hydrophobic anion exchance resin (10% weight/weight content of lipase) gave the

best yield in the esterification reaction of astaxanthin. Two

milligrams of astaxanthin per 750 µL tri-n-octanoin (ca. 0.3%) was optimum because of the low solubility of tri-n-octanoin. The esters

were obtained in a yield of 36.4% under the optimal reaction conditions.

REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:754507 CAPLUS

DOCUMENT NUMBER: 147:142356

TITLE: β-Amyrin fatty acid derivatives inhibiting

production of inflammatory cytokines, their uses as

inflammation inhibitors, and food and cosmetics

containing them

INVENTOR(S): Nimura, Yoshihiro

PATENT ASSIGNEE(S): Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 42pp.

CODEN: JKXXAF
DOCUMENT TYPE: Patent

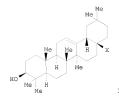
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007176816 PRIORITY APPLN. INFO.:	A	20070712	JP 2005-374630 JP 2005-374630	20051227 20051227

GI



AB

docosahexaenoic acid, docosapentaenoic acid, octanoic acid, decanoic acid, y-linoleic acid) inhibit production of inflammatory cytokines and are useful as inflammation inhibitors with slight adverse reactions. Also claimed are food and cosmetics containing I, astaxanthin, and Diospyros kaki leaf extract-containing soybean oil at predetd. concns. Thus, Chrysanthemum morifolium flower was ground, treated with eicosapentaenoic acid in the presence of Lipase AY Amano at 26° for 13 h, mixed with sep. prepared Diospyros kaki leaf extract-containing sovbean oil, and the oil phase was separated The oil phase

Title esters I (X = stearic acid, palmitic acid, eicosapentaenoic acid,

containing I (X = eicosapentaenoic acid) suppressed Japanese cedar pollen-induced interleukin-la production by monocytes derived from pollinosis patients.

L13 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2006:1287293 CAPLUS

DOCUMENT NUMBER: 147:166496

TITLE: Chemical synthesis of astaxanthin noctanoic acid monoester and diester and

evaluation of their oral absorbability

AUTHOR(S): Fukami, Harukazu; Namikawa, Koshi; Sugiura-Tomimori,

Namino; Sumida, Motoo; Katano, Kenji; Nakao, Masahiro Department of Bioscience and Biotechnology, Faculty of CORPORATE SOURCE: Bioenvironmental Science, Kyotogakuen University, 1-1

Nanjyo, Sogabe-cho, Kameoka-city, Kyoto, 621-8555, Japan

SOURCE: Journal of Oleo Science (2006), 55(12), 653-656

CODEN: JOSOAP; ISSN: 1345-8957

PUBLISHER: Japan Oil Chemists' Society

DOCUMENT TYPE: Journal

LANGUAGE: English

CASREACT 147:166496 OTHER SOURCE(S):

We chemical synthesized astaxanthin n-octanoic acid

monoester and diester from free astaxanthin and noctanoic acid by a dehydration reagent in 32 and 22% yield, resp.

The oral absorbability of the n-octanoic acid monoester and diester was evaluated by examining the plasma and liver concns. of

astaxanthin after oral administration of the compds. The

monoester significantly increased the plasma and liver concentration of

astaxanthin compared with the long-chain fatty acid ester mixture

derived from Haematococcus algae. The diester is inclined to increase it although it is not significant. It is possible that medium-chain fatty acid esters give better oral-absorbability of astaxanthin than

long-chain fatty acid esters.

REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2006:1219315 CAPLUS

DOCUMENT NUMBER: 146:44433

TITLE: Carotenoids in Solenocera indica and Aristeus alcocki, deep-sea shrimp from Indian waters

AUTHOR(S): Manjabhat, Sachindra Nakkarike; Narayan, Bhaskar;

Subbanna, Mahendrakar Namdev

CORPORATE SOURCE: Department of Meat, Fish, and Poultry Technology,

Central Food Technological Research Institute, Mysore,

570 013, India
Journal of Aquatic Food Product Technology (2006),

15(2), 5-16

CODEN: JAFPE5; ISSN: 1049-8850 PUBLISHER: Food Products Press

DOCUMENT TYPE: Journal

SOURCE:

LANGUAGE: English

B Carotenoids are the major pigments responsible for the color of crustaceans like shrimp. Quant and qual. distribution of carotenoids in different body components of deep-sea shrimp Solenocera indica and Aristeus alcocki, from Indian waters were assessed. The yield of waste (head and carapace) from processing of these shrimp ranged from 62.6-65.6%. Carotenoid content was higher in A. alcocki and the highest total carotenoid content of 185.3 µg/g was observed in head of A. alcocki. Astaxanthin and its mono- and diesters (63.5-92.2%) were the major carotenoids in both the species of shrimp and the levels of esterified astaxanthin were higher than the free form of astaxanthin

. The levels of astaxanthin esters were higher (61.7-70.8%) in

A. alcocki compared to S. indica (43.8-58.4%). Highest unsatd. fatty acid content (60.5%) was observed in the carotenoid extract from head of A. alcocki, and the highest saturated fatty acid content (83.1%) was observed in the carotenoid extract from the carapace.

REFERENCE COUNT: 31 THERE ARE 31 CT

THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2005:161417 CAPLUS

DOCUMENT NUMBER: 142:279029

TITLE: Carotenoids in crabs from marine and fresh waters of

India

AUTHOR(S): Sachindra, N. M.; Bhaskar, N.; Mahendrakar, N. S.
CORPORATE SOURCE: Department of Meat, Fish and Poultry Technology.

Department of Meat, Fish and Poultry Technology, Central Food Technological Research Institute, Mysore,

570 013, India

SOURCE: LWT--Food Science and Technology (2005), 38(3),

221-225

PUBLISHER: CODEN: LSTWB3
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Quant, and qual, distribution of carotenoids in meat and shell of major

marine crab (Charybdis cruciata) and fresh water crab (Potamon potamon) from Indian waters was assessed. The total carotenoid content was low in both species of crabs analyzed, highest being 11.0 µg/g in shell of marine crab. Thin-layer chromatog. (TLC) and high-performance liquid chromatog. (HPLC) of carotenoid exts. indicated that the marine crab contained astaxanthin and its esters as major carotenoids and zeaxanthin was major carotenoid in fresh water crab extract Astaxanthin and its esters contributed 67.6 and 65.5 g/100 g of total carotenoids in meat and shell of marine crab. The zeaxanthin content (q/100 q) in the carotenoid extract of meat and shell of fresh water crab was 42.0 and 74.8 of total carotenoids. The carotenoid exts. from both the crabs had higher level of unsatd, fatty acids. Oleic acid (C18:1) and palmitoleic acid (C16:1) were the predominant unsatd. fatty acid in carotenoid extract from meat of marine and fresh water crab, resp. In the carotenoid extract from shell, eicosenoic acid (C20:1) in marine crab and linolenic acid (C18:3) in fresh water crab were the major unsatd. fatty acids.

REFERENCE COUNT: 2.0 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2009 ACS on STN

2005:19691 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 142:133344

TITLE: Carotenoids in different body components of Indian

shrimps

Sachindra, Nakkarike M.; Bhaskar, Narayan; AUTHOR(S):

Mahendrakar, Namadev S.

CORPORATE SOURCE: Department of Meat, Fish and Poultry Technology,

Central Food Technological Research Institute, Mysore,

570 013, India

Journal of the Science of Food and Agriculture (2005), SOURCE:

85(1), 167-172

CODEN: JSFAAE; ISSN: 0022-5142 PUBLISHER: John Wiley & Sons Ltd.

Journal

DOCUMENT TYPE: LANGUAGE:

English

The quant, and qual, distribution of carotenoids in different body components of 4 species of shrimp (Penaeus monodon, Penaeus indicus, Metapenaeus dobsonii, and Parapenaeopsis stylifera) harvested from shallow waters off the Indian coast was assessed. The highest total carotenoid contents were observed in the head (153.1 µg g-1) and carapace (104.7 μq q-1) of P. stylifera, while the body components of P. indicus showed the lowest carotenoid levels. Astaxanthin and its mono- and diesters were the major carotenoids (63.5-92.2% of total carotenoids) present in the carotenoid exts. from the shrimps, while the exts. contained low levels of β -carotene and zeaxanthin. The major fatty acids in the carotenoid exts, were palmitic, heptadecanoic, palmitoleic, stearic, and oleic acids.

REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2009 ACS on STN 2003:892745 CAPLUS

ACCESSION NUMBER:

DOCUMENT NUMBER: 139:363710

TITLE: Astaxanthin medium-chain fatty acid ester manufacture by enzymic transesterification and

esterification

INVENTOR(S): Sumida, Motoo; Nakao, Masahiro; Tomimori, Namino;

Namikawa, Koshi; Fukami, Harukazu

Suntory Limited, Japan PATENT ASSIGNEE(S): SOURCE: PCT Int. Appl., 49 pp.

CODEN: PIXXD2 DOCUMENT TYPE: Patent Japanese

LANGUAGE: FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE WO 2003093229 A1 20031113 WO 2003-JP5443 20030428 W: AU, CA, CN, ID, IL, JP, KR, SG, US RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR CA 2481704 A1 20031113 CA 2003-2481704 AU 2003234765 A1 20031117 AU 2003-234765 EP 1500645 A1 20050126 EP 2003-728006 20030428 20030428 20030428 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT
IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, SK
CN 1649839
CN 100374417
C 20080312
US 20050228188
A1 20051013
US 2004-511829
PRIORITY APPLN. INFO::

W0 2003-JP5443
W 20030428

An astaxanthin medium-chain fatty acid ester (I) useful for

manufacturing food, cosmetic, and drug has better bioavailability and movement in liver than that of the previously known astaxanthin

long-chain fatty acid esters. I is prepared by enzymic transesterification with a lipase between the astaxanthin long-chain fatty acid

esters and medium-chain fatty acid or glycerides, or enzymic

esterification of astaxanthin. Manufacture of astaxanthin mono- and diester of octanoic acid with lipase of Candida was

shown.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2002:888445 CAPLUS

DOCUMENT NUMBER: 137:375344

TITLE: Two-part disinfecting system INVENTOR(S): Morelli, Joseph; Warf, C. Cayce, Jr.; Aldrich, Maura;

Morse, Cecilia Moser; Wiley, Jean

PATENT ASSIGNEE(S): Alcide Corporation, USA SOURCE: PCT Int. Appl., 31 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Pat.ent. LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE W0 2002091832 A1 20021121 W0 2002-US15303 20020515 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CR, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,

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GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
             UA, UG, US, UZ, VN, YU, ZA, ZM, ZW
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
             CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
             BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG
     US 6524624
                         В1
                               20030225 US 2001-859902
                                                                   20010516
    AU 2002308724
                         A1
                               20021125
                                          AU 2002-308724
                                                                    20020515
     EP 1401280
                         A1
                               20040331
                                          EP 2002-769742
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
PRIORITY APPLN. INFO.:
                                            US 2001-859902
                                                                A 20010516
                                            WO 2002-US15303
                                                                W 20020515
    The two-part disinfecting system contains a first part and a second part
    adapted to be mixed to yield an aqueous disinfecting composition, wherein the
first
     part comprises a chlorite and the second part comprises an acid and an
     oxidizable colorant, and wherein the first and/or second part comprise an
     \alpha-olefin sulfonate. When the two parts are mixed, the resulting
     disinfectant composition shows reduced chlorine dioxide generation and extended
    color longevity.
REFERENCE COUNT:
                               THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
                               RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
L13 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER:
                         2001:680155 CAPLUS
DOCUMENT NUMBER:
                         136:99141
TITLE:
                         Studies on the chemical component of Polygonum
                         barbatum L.
                         Gao, Li-ming; Wei, Xiao-mei; Zheng, Shang-zhen; Shen,
AUTHOR(S):
                         Xu-wei
CORPORATE SOURCE:
                         College of Chemistry and Chemical Engineering,
                         Northwest Normal University, Lanzhou, 730070, Peop.
                         Rep. China
SOURCE:
                         Xibei Shifan Daxue Xuebao, Ziran Kexueban (2001),
                         37(3), 41-43
                         CODEN: XDXKEH; ISSN: 1001-988X
                         Xibei Shifan Daxue
PUBLISHER:
DOCUMENT TYPE:
                        Journal
LANGUAGE:
                         Chinese
    The chemical components of essential oil from Polygonum barbatum L. have been
    studied by means of SFE-CO2 and GC-MS-computer. 33 Constituents have been
    identified from 36 separated peaks. The major components were \beta\text{-sitosterol} (15.747%), \alpha\text{-eudesmol}(3.703\%) and vitamin
    E(3.603%).
L13 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER:
                         2000:756471 CAPLUS
DOCUMENT NUMBER:
                         133:295730
TITLE:
                         Pigment [astaxanthin diester-based for
                         feeding salmonids)
INVENTOR(S):
                         Breivik, Harald; Sanna, Lola Irene; Aanesen, Berit
                         Annie
PATENT ASSIGNEE(S):
                        Norsk Hydro Asa, Norway
SOURCE:
                         PCT Int. Appl., 19 pp.
                         CODEN: PIXXD2
```

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA.	PATENT NO.																
WO	WO 2000062625					71 20001026			WO 2000-NO129								
110											BR,						
											GE,						
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	RW:	GH,	GM,	KE,	LS,	MW,	SD,	SL,	SZ,	TZ,	UG,	ZW,	AT,	BE,	CH,	CY,	DE,
		DK,	ES,	FI,	FR,	GB,	GR,	IE,	IT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,
							GW,	ML,	MR,	ΝE,	SN,	TD,	TG				
NO	9901	857			A		2000	1020		NO 1	.999-	1857			1	9990	419
NO	3093	86			B1		2001	0122									
CA	2369	800			A1		2000	1026		CA 2	000-	2369	800		2	0000	417
EP	1171	002			A1		2002	0116		EP 2	-000	9211	89		2	0000	417
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
			SI,				RO										
	7591						2003	0410			000-					0000	417
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										WO 2	000-	NO12	9	1	W 2	0000	417

AB This invention relates to a new pigment in feed for salmonids, a new feed comprising this pigment and use of this pigment. The pigment comprises a diester of astaxanthin prepared with an omega-3 fatty acid and/or a short chain carboxylic acid. By this invention a pigment for feed to salmonides that is more stable and biol. more effective than free astaxanthin and com. available astaxanthin products, is provided.

=> d his

L1

L2

L3

(FILE 'HOME' ENTERED AT 18:37:59 ON 30 JAN 2009)

FILE 'AQUIRE, BIOSIS, CAPLUS' ENTERED AT 18:40:57 ON 30 JAN 2009 5433 S ASTAXANTHIN 581 S L1 (S) ESTER# 1 S L2 (S) CAPRYLIC

L4 1 S L1 (S) CAPRYLIC L5 0 S L4 NOT L3 L6 2 S L1 (L) CAPRYLIC L7 2 S L6 NOT L5

FILE 'STNGUIDE' ENTERED AT 18:45:05 ON 30 JAN 2009

FILE 'AQUIRE, BIOSIS, CAPLUS' ENTERED AT 18:46:34 ON 30 JAN 2009
L8 7 S L1 AND CAPRYLIC
L9 5 S L8 NOT L7

L9 5 S L8 NOT L7 L10 7 S L1 AND CAPRIC

FILE 'STNGUIDE' ENTERED AT 18:48:49 ON 30 JAN 2009

L11 0 S L1 AND (OCTANOIC OR DECANOIC) L12 0 S L1 AND NANANOIC

FILE 'AQUIRE, BIOSIS, CAPLUS' ENTERED AT 18:55:51 ON 30 JAN 2009

10 S L1 AND (OCTANOIC OR NONANOIC OR DECANOIC) L13

=> log off

ALL L# OUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y) /N/HOLD:y

STN INTERNATIONAL LOGOFF AT 19:00:32 ON 30 JAN 2009